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OM protein - protein search, using sw model

Run on: May 23, 2001, 15:53:47 ; Search time 109.73 seconds

(without alignments)
52.522 Million cell updates/sec

Title: US-09-518-931-2
Perfect score: 1634
Sequence: 1 MRALGPGSLCLVLPALPA.....RVARMGLERSVREFLPVH 300

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 185757 seqs, 19210857 residues

Total number of hits satisfying chosen parameters: 185757

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: Issued_Patents_AA:*
2: /cgn2_6/ptodata/2/1aa/5A.COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/5B.COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6A.COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/6B.COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Backfilest1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1634	100.0	300	2	US-08-794-796-2
2	444	27.2	401	3	US-08-974-022-6
3	444	27.2	401	4	US-09-042-785A-12
4	425.5	26.0	401	3	US-08-974-022-2
5	424.5	26.0	401	3	US-08-974-022-4
6	424.5	26.0	401	4	US-09-042-785A-13
7	353.5	21.6	461	4	US-09-042-785A-7
8	351.5	21.5	461	1	US-08-385-229-2
9	351.5	21.5	461	1	US-08-650-000-2
10	351.5	21.5	461	6	5395760-2
11	346	21.2	227	3	US-08-974-022-48
12	344	21.1	486	1	US-08-243-010-1
13	344	21.1	518	1	US-08-385-229-4
14	332.5	20.3	474	2	US-08-650-000-4
15	332.5	20.3	474	4	US-09-042-785A-8
16	332.5	20.3	474	6	5395760-4
17	318	19.5	163	2	US-08-219-237B-5
18	316	19.3	164	2	US-08-232-087A-9
19	287	17.6	253	4	US-09-042-785A-4
20	287	17.6	605	4	US-09-042-785A-23
21	285.5	17.5	655	3	US-08-959-382-2
22	285.5	17.5	197	2	US-08-505-606-1
23	264.5	16.2	355	1	US-08-292-549-6
24	246	15.1	283	5	PCT-US96-12374-2
25	239	14.6	451	3	US-08-996-139-4
26	239	14.6	616	3	US-08-996-139-6
27	236.5	14.5	207	3	US-08-974-022-47

28	236.5	14.5	325	1	US-08-292-549-2	Sequence 2, Appl
29	236.5	14.5	325	4	US-09-042-785A-9	Sequence 9, Appl
30	236.5	14.5	325	5	PCT-US91-02207-2	Sequence 2, Appl
31	233.5	14.4	591	3	US-08-996-139-2	Sequence 2, Appl
32	233.5	14.3	625	3	US-08-996-139-15	Sequence 15, Appl
33	226	13.8	277	2	US-08-147-784-2	Sequence 2, Appl
34	225	13.8	573	4	US-09-042-785A-2	Sequence 2, Appl
35	215	13.2	326	1	US-08-292-549-4	Sequence 4, Appl
36	215	13.2	326	5	PCT-US91-02207-4	Sequence 4, Appl
37	214	13.1	205	3	US-08-974-022-51	Sequence 51, Appl
38	212	13.0	139	2	US-08-219-237B-8	Sequence 8, Appl
39	211	12.9	277	4	US-09-042-785A-10	Sequence 10, Appl
40	203	12.4	197	3	US-08-974-022-49	Sequence 49, Appl
41	203	12.4	289	4	US-09-042-785A-11	Sequence 11, Appl
42	202.5	12.4	162	2	US-08-219-237B-7	Sequence 7, Appl
43	198.5	12.1	206	1	US-08-097-827-7	Sequence 7, Appl
44	198.5	12.1	206	1	US-08-494-574-7	Sequence 7, Appl
45	198.5	12.1	438	1	US-08-097-827-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-08-794-796-2
Sequence 2, Application US/08794796
Patent No. 5885800
GENERAL INFORMATION:
APPLICANT: Emery, John
APPLICANT: Tan, KB
APPLICANT: Young, Peter
APPLICANT: Young, Peter
TITLE OF INVENTION: Tumor Necrosis Related Receptor,
TITLE OF INVENTION: TR4
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/794,796
FILING DATE: 04-FEB-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Han, William T
REGISTRATION NUMBER: 34,344
REFERENCE/DOCKET NUMBER: GH50000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-5219
TELEFAX: 610-270-4026
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 300 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-794-796-2
Query Match 100.0%, Score 1634, DB 2, Length 300;

Best Local Similarity 100.0%; Pred. No. 2.5e-127;
Matches 300; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRALEBGLSLCLVLAALPAPVAVGVAETPTYPMWDAETGERLVCAQCPGTFVOR 60
DB 1 MRALEBGLSLCLVLAALPAPVAVGVAETPTYPMWDAETGERLVCAQCPGTFVOR 60
QY 61 PCRBDPTTCGPPPHRYTOFMWYLERCRVNLGCEEREERACHATHNRACRCRTGFF 120
DB 61 PCRBDPTTCGPPPHRYTOFMWYLERCRVNLGCEEREERACHATHNRACRCRTGFF 120
QY 121 AHAGFLEHASCPGAGVIAFGTSPONTOCPCPGTFSSASSSSSSQCPHNRCTALGLA 180
DB 121 AHAGFLEHASCPGAGVIAFGTSPONTOCPCPGTFSSASSSSSSQCPHNRCTALGLA 180
QY 181 LNPVSSSHDTLCTCTGFPSTRVGAECERAVIDEVAFODISIKRLORLQALEAPE 240
DB 181 LNPVSSSHDTLCTCTGFPSTRVGAECERAVIDEVAFODISIKRLORLQALEAPE 240
QY 241 GWGPTFRAGAAQLKLRRLTELLGAODALLVRLQALRVARMGLESVREERLPFH 300
DB 241 GWGPTFRAGAAQLKLRRLTELLGAODALLVRLQALRVARMGLESVREERLPFH 300

RESULT 2

US-08-974-022-6
Sequence 6, Application US/08974022
Patent No. 6015938

GENERAL INFORMATION:

APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Delavilland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/974,022
FILING DATE: 12-DEC-1995
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378
INFORMATION FOR SEQ. ID NO.:
SEQUENCE CHARACTERISTICS:
LENGTH: 401 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-974-022-6

Query Match

Best Local Similarity 27.2%; Score 444; DB 3; Length 401;
Matches 84; Conservative 32; Mismatches 86; Indels 10; Gaps 4;

QY 11 LCLVLALPALLPVPVAVGVAET--PTYPMWDAETGERLVCAQCPGTFVORPCRDSDPT 68
DB 4 LCLCAL---VFLDISIKWTQETFPFKYLHYDEBTSHOLLCDKCPGTYLTKONCTAKMT 60

QY 69 TCGPCPPPHRYTOFMWYLERCRVNLGCEEREERACHATHNRACRCRTGFFAHAGCLE 128
DB 61 VCAPCPDHYTDSWHTSDECIYCSVPCKELQYVKQECNRTHNRVCECKEGRLIEIECLK 120
QY 129 HASCEPGAGVIAFGTSPONTOCPCPGTFSSASSSSSSQCPHNRCTALGLALVPPSSS 188
DB 121 HNSCPGPGVAGVAGPBNHTVCKRPDGFSSNEMTSKAPCKRHNCVSFGLLTKQGNAT 180
QY 189 HDTLCTCTGFPSTRVGAEE--CERAVIDF 218
DB 181 HDNI---CSGNSESTOKGIDVTLCCEAFPR 209

RESULT 3

US-09-042-785A-12
Sequence 12, Application US/09042785A
Patent No. 6194151

GENERAL INFORMATION:

APPLICANT: Busfield, Samantha J.
TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/042,785A
FILING DATE: 17-MAR-1998
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/938,896
FILING DATE: 26-SEP-1997
ATTORNEY/AGENT INFORMATION:
NAME: Mandigouras, Amy E
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: MEI-001CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ. ID NO.: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 401 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-09-042-785A-12

Query Match

Best Local Similarity 27.2%; Score 444; DB 4; Length 401;
Matches 84; Conservative 32; Mismatches 86; Indels 10; Gaps 4;

QY 11 LCLVLALPALLPVPVAVGVAET--PTYPMWDAETGERLVCAQCPGTFVORPCRDSDPT 68
DB 4 LCLCAL---VFLDISIKWTQETFPFKYLHYDEBTSHOLLCDKCPGTYLTKONCTAKMT 60
QY 69 TCGPCPPPHRYTOFMWYLERCRVNLGCEEREERACHATHNRACRCRTGFFAHAGCLE 128
DB 61 VCAPCPDHYTDSWHTSDECIYCSVPCKELQYVKQECNRTHNRVCECKEGRLIEIECLK 120
QY 129 HASCEPGAGVIAFGTSPONTOCPCPGTFSSASSSSSSQCPHNRCTALGLALVPPSSS 188
DB 121 HNSCPGPGVAGVAGPBNHTVCKRPDGFSSNEMTSKAPCKRHNCVSFGLLTKQGNAT 180

QY 189 HDLCTCTGTFPLSTRVGAEE--CERAVIDE 218
DB 181 HDNI---CSGSESTOKCGIDVTLCERAFRRF 209

RESULT 4

US-08-974-022-2
Sequence 2, Application US/08974022

Patent No. 6015938

GENERAL INFORMATION:

APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Denavilland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/974,022
FILING DATE: 12-DEC-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 401 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-974-022-2

Query Match 26.0%; Score 425.5; DB 3; Length 401;
Best Local Similarity 39.5%; Pred. No. 1.2e-27;
Matches 81; Conservative 33; Mismatches 86; Indels 5; Gaps 2;

QY 34 PTYPMDAETGERLVCAQCPGTFVORPCRDSPPTCGPCPPRHYYQFMWYLERCRYCNV 93
DB 26 PKYIHTDPEGTGROLDCKAPGTYLKOHCTVRRKTLCPDPDYSYDSMTSDECVYCS 85
QY 94 LCGEREERARACHATHNRACRCRTGFFAHAGFCLERHASCPCPGAGVIAPTSPONTQCP 153
DB 86 VCKELDTVKEOCNRTNHRVCEEGRYLEIFCLKHSRCPGGLVQAGTPERNYCKRC 145
QY 154 PPGTFSSSSSSBOCPHNRCTALGLALNVPSSSHDTLCTSGTFPLSTRVGAEE--C 211
DB 146 PDGFFGERTSSKAPCRKHTKSSGLLLIOLKGNATHDNV---CSGNREATQNGCIDVTLC 202
QY 212 ERAVIDFVAFODISIKRLQRLQAL 236
DB 203 EEAFRRFAVPTKIIPMWLSVLVDSL 227

RESULT 5

US-08-974-022-4
Sequence 4, Application US/08974022
Patent No. 6015938

GENERAL INFORMATION:

APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Denavilland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/974,022
FILING DATE: 12-DEC-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 401 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-974-022-4

Query Match 26.0%; Score 424.5; DB 3; Length 401;
Best Local Similarity 39.0%; Pred. No. 1.4e-27;
Matches 80; Conservative 32; Mismatches 88; Indels 5; Gaps 2;

QY 34 PTYPMDAETGERLVCAQCPGTFVORPCRDSPPTCGPCPPRHYYQFMWYLERCRYCNV 93
DB 26 PKYIHTDPEGTGROLDCKAPGTYLKOHCTVRRKTLCPDPDYSYDSMTSDECVYCS 85
QY 94 LCGEREERARACHATHNRACRCRTGFFAHAGFCLERHASCPCPGAGVIAPTSPONTQCP 153
DB 86 VCKELDTVKEOCNRTNHRVCEEGRYLEIFCLKHSRCPGGLVQAGTPERNYCKRC 145
QY 154 PPGTFSSSSSSBOCPHNRCTALGLALNVPSSSHDTLCTSGTFPLSTRVGAEE--C 211
DB 146 PDGFFGERTSSKAPCRKHTKSSGLLLIOLKGNATHDNV---CSGNREATQNGCIDVTLC 202
QY 212 ERAVIDFVAFODISIKRLQRLQAL 236
DB 203 EEAFRRFAVPTKIIPMWLSVLVDSL 227

RESULT 6

US-09-042-785A-13
Sequence 13, Application US/09042785A
Patent No. 6194151

GENERAL INFORMATION:

APPLICANT: Busfield, Samantha J
TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts

Thu May 24 08:32:45 2001

us-09-518-931-2.rai

Page 4

1 COUNTRY: USA
 2 ZIP: 02109
 3 COMPUTER READABLE FORM:
 4 MEDIUM TYPE: Floppy disk
 5 COMPUTER: IBM PC compatible
 6 OPERATING SYSTEM: PC-DOS/MS-DOS
 7 SOFTWARE: PatentIn Release #1.0, Version #1.25
 8 CURRENT APPLICATION DATA:
 9 APPLICATION NUMBER: US/09/042,785A
 10 FILING DATE: 17-MAR-1998
 11 PRIOR APPLICATION DATA:
 12 APPLICATION NUMBER: US 08/938,896
 13 FILING DATE: 26-SEP-1997
 14 ATTORNEY/AGENT INFORMATION:
 15 NAME: Mandiagouras, Amy E
 16 REGISTRATION NUMBER: 36,207
 17 REFERENCE/DOCKET NUMBER: MEI-001CP
 18 TELECOMMUNICATION INFORMATION:
 19 TELEPHONE: (617)227-7400
 20 TELEFAX: (617)742-4214
 21 INFORMATION FOR SEQ ID NO.: 13:
 22 SEQUENCE CHARACTERISTICS:
 23 LENGTH: 401 amino acids
 24 TYPE: amino acid
 25 TOPOLOGY: linear
 26 MOLECULE TYPE: peptide
 27 FRAGMENT TYPE: Internal
 28 US-09-042-785A-13

Query Match	26.08;	Score 424.5;	DB 4;	Length 401;
Best Local Similarity	39.08;	Pred. No. 1.4e-27;		
Matches	80;	Conservative	32;	Mismatches 88;
			Indels	5;
			Gaps	2

[illegible]

RESULT 7
 US-09-042-785A-7
 Sequence 7, Application US/09042785A
 Patent No. 6194151
 GENERAL INFORMATION:
 APPLICANT: Busfield, Samantha J
 TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
 TITLE OF INVENTION: AND USES THEREOF
 NUMBER OF SEQUENCES: 31
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: LAHIVE & COCKFIELD, LLP
 STREET: 28 State Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:

```

1 APPLICATION NUMBER: US/09/042,785A
2 FILING DATE: 17-MAR-1998
3 PRIOR APPLICATION DATA:
4 APPLICATION NUMBER: US 08/938,896
5 FILING DATE: 26-SEP-1997
6 ATTORNEY/AGENT INFORMATION:
7 NAME: Mandragouras, Amy E
8 REGISTRATION NUMBER: 36,207
9 REFERENCE/DOCKET NUMBER: M1-001CP
10 TELECOMMUNICATION INFORMATION:
11 TELEPHONE: (617)227-7400
12 INFORMATION FOR SEQ ID NO: 7:
13 SEQUENCE CHARACTERISTICS:
14 LENGTH: 461 amino acids
15 TYPE: amino acid
16 TOPOLOGY: linear
17 MOLECULE TYPE: peptide
18 FRAGMENT TYPE: internal
19 US-09-042-785A-7

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Query Match	21.6%;	Score 353.5;	DB 4;	Length 461;
Best Local Similarity	29.8%;	Pred. No. 1.2e-21;		
Matches	96;	Conservative	43;	Mismatches 122;
			Indels	61;
			Gaps	12;

Qy	8	GLISCTLVLPALLPVPVAVGATPTTPYPMNDATGE-----	RLVCAQCPGG	55		
Db	13	GLELWAAAHALPA-----	QVATPYAP-----	EPGSTCRRLREXYDDQTAOMCSCSKSPG	60	
Qy	56	TFVQPCRCRODSTTGGCPRPRIHYTGFWVYLERCRCVNLGCRGEEREAACHATHRRAC		115		
Db	61	QNAKFCFKTSDTVDOSCEDSTYTLQMLMNVPECLSCGRSSDQYETQACTRHQNRILTC		120		
Qy	116	RTGFPAHAG-----	FCLEHASPCGACVIAGTPTSONTOOCPGPTGFSASSSSSECO	169		
Db	121	RFQWICALSKQECCLCAPLRKCRGFGVARGITSDYVCKPCAPGFTSNTSTDLCR		180		
Qy	170	PHRNCATLGLALNVGSSSHDTLCSCGFPSTVRBAEBCERAVIDVFAQDISIRL		229		
Db	181	PHQJCNVVA-----	ITGNSNRDAVCTIS-----	PTKSNAPGAVHLPPQY-----	STRSQHT	227
Qy	230	QRLQLCALPAE-----	GKGPTRPA-----	GRALQLKLRRLTELIGADQDALLVLLQAL		280
Db	228	QPTPESTAPSTSETLLPMGPSPAGSGTGFALPGLIVGTAL-----	GLTIIGVNCV		282	
Qy	281	--RVARNP--GLERSVREFFLP	298			
Db	283	IMTVKKRPFLCQREAKVPHLP	304			

RESULT 8
 US-08-385-229-2
 : Sequence 2, Application US/08385229
 : Patent No. 5605690
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Jacobs, Cindy A.
 : APPLICANT: Smith, Craig A.
 : TITLE OF INVENTION: Method of Treating TNF-Dependent
 : NUMBER OF INVENTION: Inflammation Using Tumor Necrosis Factor Antagonists
 : NUMBER OF SEQUENCES: 5
 :
 : ADDRESSEE: Immunex Corporation
 : STREET: 51 University Street
 : CITY: Seattle
 : STATE: Washington
 : COUNTRY: U.S.A.
 :
 : ZIP: 98101
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patentln Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/385,229
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/946,236
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Wight, Christopher L.
REGISTRATION NUMBER: 31,680
REFERENCE/DOCKET NUMBER: 2503
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 587-0430
TELEFAX: (206) 587-0606
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 461 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-385-229-2

Query Match 21.5%; Score 351.5; DB 1; Length 461;
Best Local Similarity 29.8%; Pred. No. 1.7e-21;
Matches 96; Conservative 43; Mismatches 122; Indels 61; Gaps 12;

QY 8 GLSLCLVLLPALPLPVPVAVGVAETPTYPWRDAETGE-----RLVCAACPPG 55
DB 13 GLELMAAHLPA-----QVAFIPYAP-----EPGSTRLREYVDQTAQMCCSCSPG 60
QY 56 TFVQRCRDRSDPTTCGPPRHITQFWNYLERCRYCNVLCGEDEEARACHAHNRACRC 115
DB 61 QHAKVFCTKTSIDVCDSCEDSTYTOLMNVPECLSCGSRSSDOVETQACTRQNRICTC 120
QY 116 RTGEFAHAG-----FCLHASCPGAGVYAPGTPSONTCOPCPGTFSASSSSSEOCQ 169
DB 121 RRGWYCALSKQEGCRICAPLRKCRPGFVARPGETETSDVYCKRCACGTFSNTTSDICR 180
QY 170 PHRNCTALGLALNVPGSSSHDILCTCTGFPPLSTRVPGAECERAVIDFVAFODISIKRL 229
DB 181 PHQICNVVA-----IPGNASMDAVCTSTS--PTRSMAPGAVHLRQPV-----STRSQHT 227
QY 230 QRLQALEAPE-----GWGTPRA-----GRAALQKLRLTLTLLGAQDALLVRLQAL 280
DB 228 QRPPESTAPSTSFLLPMGSPPAEGSTGDFALPGLIVGTAL-----GLLIIVNCV 282
QY 281 ---RVARMP-GLERSYERFLP 298
DB 283 IMTVKKKKPLCLQREAKVPHLP 304

RESULT 9
US-08-650-000-2
Sequence 2, Application US/08650000
Patent No. 5945397
GENERAL INFORMATION:
APPLICANT: Smith, Craig A.
APPLICANT: Goodwin, Raymond G.
APPLICANT: Beckmann, M. Patricia
TITLE OF INVENTION: Tumor Necrosis Factor Receptors
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Immunex Corporation
STREET: 51 University Street
CITY: Seattle
STATE: Washington
COUNTRY: U.S.A.
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/650,000
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/468,453
FILING DATE:
APPLICATION NUMBER: US/08/038,765
FILING DATE:
APPLICATION NUMBER: US 403,241
FILING DATE: 05-SEP-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 405,370
FILING DATE: 11-SEP-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 421,417
FILING DATE: 13-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 523,635
FILING DATE: 10-MAY-1990
ATTORNEY/AGENT INFORMATION:
NAME: Wight, Christopher L.
REGISTRATION NUMBER: 31,680
REFERENCE/DOCKET NUMBER: 2501-D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 587-0430
TELEFAX: (206) 233-0644
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 461 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-650-000-2

Query Match 21.5%; Score 351.5; DB 2; Length 461;
Best Local Similarity 29.8%; Pred. No. 1.7e-21;
Matches 96; Conservative 43; Mismatches 122; Indels 61; Gaps 12;

QY 8 GLSLCLVLLPALPLPVPVAVGVAETPTYPWRDAETGE-----RLVCAACPPG 55
DB 13 GLELMAAHLPA-----QVAFIPYAP-----EPGSTRLREYVDQTAQMCCSCSPG 60
QY 56 TFVQRCRDRSDPTTCGPPRHITQFWNYLERCRYCNVLCGEDEEARACHAHNRACRC 115
DB 61 QHAKVFCTKTSIDVCDSCEDSTYTOLMNVPECLSCGSRSSDOVETQACTRQNRICTC 120
QY 116 RTGEFAHAG-----FCLHASCPGAGVYAPGTPSONTCOPCPGTFSASSSSSEOCQ 169
DB 121 RRGWYCALSKQEGCRICAPLRKCRPGFVARPGETETSDVYCKRCACGTFSNTTSDICR 180
QY 170 PHRNCTALGLALNVPGSSSHDILCTCTGFPPLSTRVPGAECERAVIDFVAFODISIKRL 229
DB 181 PHQICNVVA-----IPGNASMDAVCTSTS--PTRSMAPGAVHLRQPV-----STRSQHT 227
QY 230 QRLQALEAPE-----GWGTPRA-----GRAALQKLRLTLTLLGAQDALLVRLQAL 280
DB 228 QRPPESTAPSTSFLLPMGSPPAEGSTGDFALPGLIVGTAL-----GLLIIVNCV 282
QY 281 ---RVARMP-GLERSYERFLP 298
DB 283 IMTVKKKKPLCLQREAKVPHLP 304

RESULT 10
5395760-2
Patent No. 5395760
APPLICANT: SMITH, CRAIG A.; GOODWIN, RAYMOND G.; BECKMANN, M. PATRICIA
TITLE OF INVENTION: DNA ENCODING TUMOR NECROSIS FACTOR-a AND
-B-RECEPTORS

NUMBER OF SEQUENCES: 17
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/523,635
FILING DATE: 10-MAY-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 421,417
FILING DATE: 13-OCT-1989
APPLICATION NUMBER: 405,370
FILING DATE: 11-SEP-1989
APPLICATION NUMBER: 403,241
FILING DATE: 05-SEP-1989
SEQ ID NO: 2
LENGTH: 461
5395760-2

Query Match 21.5%; Score 351.5; DB 6; Length 461;
Best Local Similarity 29.8%; Pred. No. 1.7e-21;
Matches 96; Conservative 43; Mismatches 122; Indels 61; Gaps 12;

OY 8 GSLCLVIALPALPVPVAVGVAETPTYPWRDAETGE-----RLVCAOCPPG 55
DB 13 GLELMAAAHALPA-----QVAFTPYAP-----EPGSTCRLEXYDQTAOMCCSKCSPG 60
OY 56 TVQPRCRDSEPTGCPGPPRHAYTOFWNVLECRVCNVLCGEREBARACHATHNRACRC 115
DB 61 QHAKVCTKTSPTVCDSCEDSTYTOLMNMVPECLSCGSRSSDQVETQACTREQNRICTC 120
OY 116 RTGFEFAHAG-----FCLHASCPPGAGVIAPTPSONTQOCPPGPTFSASSSSSECCO 169
DB 121 RFGWYCALSKQGCALCAPLRKCRGFGVAVRPGTETSDVYCKPCAPGTFSTSTSDICR 180
OY 170 PHNCTALGLALNVPSSSHDICTSCGTGPELSTRVGAEECCRAVIDVAFQDISIKRL 229
DB 181 PHQICNVVA-----ITGNASRDVACTSTS--PTRSMAPGAVHLPQV-----STSSQHT 227
OY 230 ORLLQALEAPE-----GWGTPRA-----GRAALQKRLRLTLLEAOCALVRLLOAL 280
DB 228 QTPPESTAPSTFLLPMGSPSPABEGSTGDFALPGLVGYVAL-----GLTLIGVNCV 282
OY 281 ---RVAMP-GLERSVREFLP 298
DB 283 IMTVKKKPLCLQREAKVPLP 304

RESULT 11
US-08-974-022-48
Sequence 48, Application US/08974022
Patent No. 6015938
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Dehavenland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentia Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/974,022
FILING DATE: 12-DEC-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/577,788
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378
INFORMATION FOR SEQ ID NO: 48:
SEQUENCE CHARACTERISTICS:
LENGTH: 227 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-974-022-48

Query Match 21.2%; Score 346; DB 3; Length 227;
Best Local Similarity 33.8%; Pred. No. 2.1e-21;
Matches 74; Conservative 28; Mismatches 81; Indels 36; Gaps 6;

OY 8 GSLCLVIALPALPVPVAVGVAETPTYPWRDAETGE-----RLVCAOCPPG 55
DB 13 GLELMAAAHALPA-----QVAFTPYAP-----EPGSTCRLEXYDQTAOMCCSKCSPG 60
OY 56 TVQPRCRDSEPTGCPGPPRHAYTOFWNVLECRVCNVLCGEREBARACHATHNRACRC 115
DB 61 QHAKVCTKTSPTVCDSCEDSTYTOLMNMVPECLSCGSRSSDQVETQACTREQNRICTC 120
OY 116 RTGFEFAHAG-----FCLHASCPPGAGVIAPTPSONTQOCPPGPTFSASSSSSECCO 169
DB 121 RFGWYCALSKQGCALCAPLRKCRGFGVAVRPGTETSDVYCKPCAPGTFSTSTSDICR 180
OY 170 PHNCTALGLALNVPSSSHDICTSCGTGPELSTRVGAEECCRAVIDVAFQDISIKRL 208
DB 181 PHQICNVVA-----ITGNASRDVACTSTS--PTRSMAPGA 213

RESULT 12
US-08-243-010-1
Sequence 1, Application US/08243010
Patent No. 5639597
GENERAL INFORMATION:
APPLICANT: Lauffer, Leander
APPLICANT: Zeitmeissel, Gerd
APPLICANT: Oquendo, Patricia
TITLE OF INVENTION: Cell-free Receptor Binding Assays, The
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flinnegan, Henderson, Farabow, Garrett &
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentia Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/243,010
FILING DATE: 13-MAY-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/798,564
FILING DATE: 26-NOV-1991
APPLICATION NUMBER: DE P 40 37 837.3
FILING DATE: 28-NOV-1990
ATTORNEY/AGENT INFORMATION:
NAME: Einaudi, Carol P.
REGISTRATION NUMBER: 32,220
REFERENCE/DOCKET NUMBER: 02481-1132-00000

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 486 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; OS-08-243-010-1

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Query Match	21.1%	Score 344;	DB 1;	length 486;
Best Local Similarity	33.8%	Pred. No. 7.6e-21;		
Matches 74;	Conservative 28;	Mismatches 81;	Indels 36;	Gaps 6

Oy	8	GSLSTCLVALPALLPAVAVGVEPTTYWMDETE-----RLVCAOPPG	55
Dd	13	GLEMAAAHALPA-----QVAFTYAP---EPBSTGLREYTDOTAMCCSKSPG	60
Oy	56	TEVORPCRRDSPPTTGCGCPRHHTQFNVNLTLCRCYCNVLGGEREARACHATHNRARC	115
Dd	61	QHAFVCFKTSIDVCDCEDSTYTQLNMWPECLSCSGSRSSDQVETQACTRBEQNRICTC	120
Oy	116	RTEGFPAAG-----FLCEHAASCPPGAGVIAPGTIPSONTOQCPCPETGSASSSSSQCO	169
Dd	121	RPGMYCALSKOEGCRILCAPLRKCPRFGVGVARPGRETSDVYCKPCAPGPFSNTTISDIKR	180
Oy	170	PHRMCTALGLALNPVGSSSHDTICTOSTGTGRPLSTRVGA	208
Dd	181	PHQICNVYA----TPGNASMDAUCTS--PTRSMACGA	213

RESULT 13
 US-08-385-229-4
 Sequence 4, Application US/08385229
 Patent No. 5605690
 GENERAL INFORMATION:
 APPLICANT: Jacobs, Cindy A.
 APPLICANT: Smith, Craig A.
 TITLE OF INVENTION: Method of Treating TNF-Dependent
 TITLE OF INVENTION: Inflammation Using Tumor Necrosis Factor Antagonists
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation
 STREET: 51 University Street
 CITY: Seattle
 STATE: Washington
 COUNTRY: U.S.A.
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/385,229
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/946,236
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Wright, Christopher L.
 REGISTRATION NUMBER: 31,680
 REFERENCE/DOCKET NUMBER: 2503
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 587-0430
 TELEFAX: (206) 587-0606
 INFORMATION FOR SEQ. ID NO.: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 518 amino acids
 TYPE: amino acid

```

; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-385-229-4

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Query Match	21.1%	Score 344	DB 1	Length 518
Best Local Similarity	33.8%	Pred. No. 8.2e-21		
Matches 74	Conservative 28	Mismatches 81	Indels 36	Gaps 6

```

QY 8 GLSLGLVIALPALPBPVAVGVAFETPTUYPRADETE-----RLVACCPG 55
      || | | | |
Db 42 GLELMAAHALPA-----QVAFETYP----EPGSTRKREYUQTQTAOMCCSKSPG 89
      || | | | |

QY 56 TVQVQPCRRDSPPTCGPCRPRIHYTQFWNYLTERCHYCNVLGSEREBEARACHATHNRARC 115
      || | | | |
Db 90 QNAVECTKTSYDVCDSCEBSTDYQLQMNWVPECLSCGSRSSDDVEYQACTREQNRICTC 149
      || | | | |

QY 116 RTGFPAHAG-----FCLHNSCPGAGAVIAPGTPSONTOQCPQCPPTGFSASSSSSSQCO 166
      || | | | |
Db 150 RPGWTCALSKOEGRCILAPLKRCKPBGGVAVAPRGETEDVYCKPCAPGTFSTNTSIDICR 209
      || | | | |

QY 170 PHRNCTALGLALNPVGSSSHLTLCSCGAPLSTRVGEA 208
      || | | | |
Db 210 PHQICNVYA----IPGNSMDAVCTSTSS--PTRSMARGA 242
      || | | | |

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RESULT 14
 US-08-650-000-4
 Sequence 4, Application US/08650000
 Patent No. 5945397
 GENERAL INFORMATION:
 APPLICANT: Smith, Craig A.
 APPLICANT: Goodwin, Raymond G.
 APPLICANT: Beckmann, M. Patricia
 TITLE OF INVENTION: Tumor Necrosis Factor Receptors
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Immunex Corporation
 STREET: 51 University Street
 CITY: Seattle
 STATE: Washington
 COUNTRY: U.S.A.
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/650,000
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/468,453
 FILING DATE:
 APPLICATION NUMBER: US/08/038,765
 FILING DATE:
 APPLICATION NUMBER: US 403,241
 FILING DATE: 05-SEP-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 405,370
 FILING DATE: 11-SEP-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 421,417
 FILING DATE: 13-OCT-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 523,635
 FILING DATE: 10-MAY-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Wright, Christopher L.
 REGISTRATION NUMBER: 31,680
 REFERENCE/DOCKET NUMBER: 2501-D
 TELECOMMUNICATION INFORMATION:

Thu May 24 08:32:45 2001

us-09-518-931-2.ra1

Page 8

TELEPHONE: (206) 587-0430
TELEFAX: (206) 233-0644
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 474 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-650-000-4

Query Match 20.3%; Score 332.5; DB 2; Length 474;
Best Local Similarity 29.7%; Pred. No. 6.5e-20;
Matches 81; Conservative 44; Mismatches 109; Indels 39; Gaps 9;

QY 46 RLVCAQCPPTGVORPCRDSPPTTCGPPRRHYTOFWNYLERCRYCNVLCGEREEARAC 105
DB 52 QMCAKCPGQYVKHFCKNTSDTVACDEASMYTQWMOFRCLSCSSCTTDQVEIRAC 111
QY 106 HATHNRACRCRTGFE---AHAGF---CLEHASCPCGAGVIAPGTPSONTOCPCPPTGTF 158
DB 112 TKQNRVACACEAGRYCALKTHSGSCRCMRLSKCGFGVASSRAPNGNVLCACAPGTF 171
QY 159 SASSSSECOOPHRNCTALGLALNVPGSSHDITCT---SCTGFPPLSTRVPGAECEERA 214
DB 172 SDTSTSTVCRPHRICSTLA---IPGNASTDVCAPESPILSAIPRLIYVSQPEPTRSQ 227
QY 215 VIDFVAFODISTIKRLQRLQALAEAPBGWPTP-----RAGRAALQKLRRRLTELLGAD 269
DB 228 PLD---QEPGSPQTSILTSL-----GSTPIIESTKGGISLPIGLIVGVTSL----- 272
QY 270 GALLVRLQAL---RVAMPGLEKRSVEREFLP 298
DB 273 GLMLGLVNCILIVOKKKPSCLOADAKVPHVP 305

RESULT 15
US-09-042-785A-8
Sequence 8, Application US/09042785A
Patent No. 6194151
GENERAL INFORMATION:
APPLICANT: Busfield, Samantha J
TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESSES:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/042.785A
FILING DATE: 17-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/938,896
FILING DATE: 26-SEP-1997
ATTORNEY/AGENT INFORMATION:
NAME: Mandragouras, Amy E
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: MEI-001CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 474 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: Internal
US-09-042-785A-8

Query Match 20.3%; Score 332.5; DB 4; Length 474;
Best Local Similarity 29.7%; Pred. No. 6.5e-20;
Matches 81; Conservative 44; Mismatches 109; Indels 39; Gaps 9;

QY 46 RLVCAQCPPTGVORPCRDSPPTTCGPPRRHYTOFWNYLERCRYCNVLCGEREEARAC 105
DB 52 QMCAKCPGQYVKHFCKNTSDTVACDEASMYTQWMOFRCLSCSSCTTDQVEIRAC 111
QY 106 HATHNRACRCRTGFE---AHAGF---CLEHASCPCGAGVIAPGTPSONTOCPCPPTGTF 158
DB 112 TKQNRVACACEAGRYCALKTHSGSCRCMRLSKCGFGVASSRAPNGNVLCACAPGTF 171
QY 159 SASSSSECOOPHRNCTALGLALNVPGSSHDITCT---SCTGFPPLSTRVPGAECEERA 214
DB 172 SDTSTSTVCRPHRICSTLA---IPGNASTDVCAPESPILSAIPRLIYVSQPEPTRSQ 227
QY 215 VIDFVAFODISTIKRLQRLQALAEAPBGWPTP-----RAGRAALQKLRRRLTELLGAD 269
DB 228 PLD---QEPGSPQTSILTSL-----GSTPIIESTKGGISLPIGLIVGVTSL----- 272
QY 270 GALLVRLQAL---RVAMPGLEKRSVEREFLP 298
DB 273 GLMLGLVNCILIVOKKKPSCLOADAKVPHVP 305

Search completed: May 23, 2001, 15:56:28
Job time: 161 sec

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